APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

Influence of Alloying Elements Upon Martensite Transformation Temperatures, by V. G. Verob'ev and A. P. Gulyaev, UNCLASSIFIED

RUSSIAN, per., Zhur Tekh Fiz, Vol XXI, 1991, No 10, pp 1157-1163

Brutcher Order No 3020
Price $4.60

Scientific - Metallurgy

456

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

Transformation of Austenite into Martensite at Subzero Temperature. Communication II., by V. G. Vorob'ev, M A. P. Gulyaev,

RUSSIAN, per; Zhur Tekh Fiz, Vol XXI, 1951, No 10, pp 1253-1259.

Bruchez Tr No 1931

Scientific - Metallurgy

Price $3.00

/ 3 75

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

On Biological and Chemical Processes in the Field of Ultrasonic Waves, by I. Ye. El'piner.

RUSSIAN, mo per, Zhur Tekh Fiz, Vol XXI, No 10, Oct 1951, pp 1205-1212.

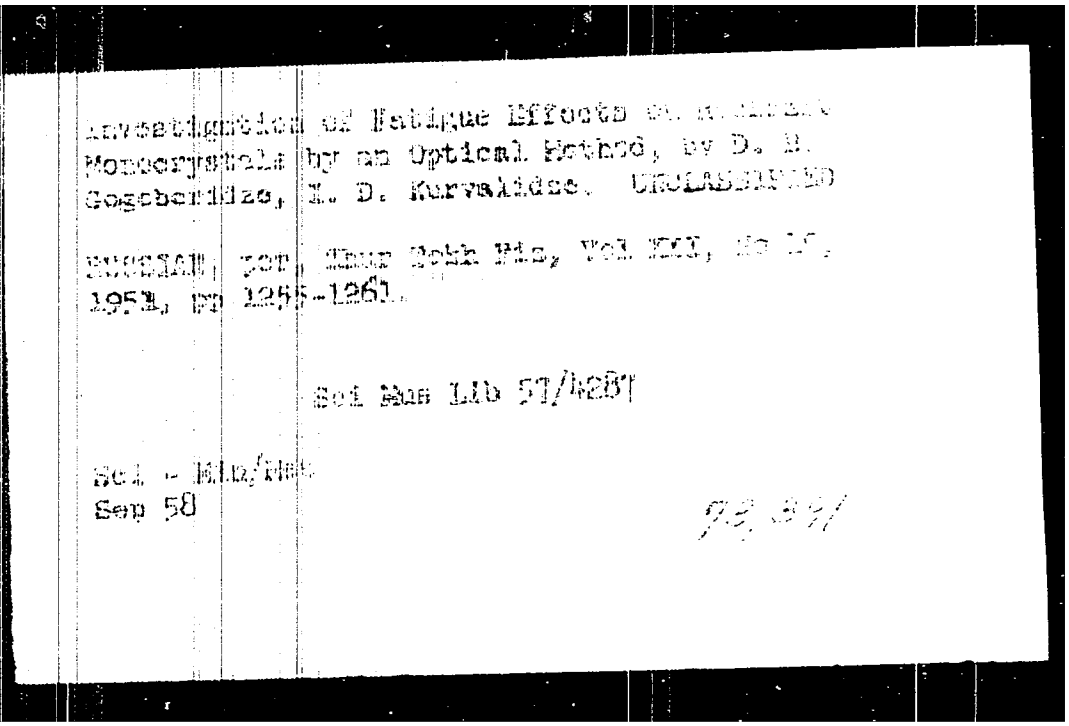
USDA Tr 3102

USSR
Scientific - Biology

Jan 54 CIS 9152

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8



Investigation of Fatigue Effects on Materials Monocrystals by an Optical Method, by D. B. Gogoberidze, I. D. Kervalidze. UNCLASSIFIED

[illegible] Tbilisi Gos. Un-t im. I. V. Stalina, Trudy Gosk Mus, Vol XXI, pp 17, 1954, pp 125-126).

Sci Mus Lib 57/4287

Sci - Mis/Met
Sep 58

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

Temperature in the Cutting of Metals, by A. A. Avakov, 7 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol XXI, No 10, 1951, pp 1262-1268.

Sci Mus Lib Tr 57/0954

49,808

Sci - Physics
Jul 57

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

Study of Residual X-Ray Strains Produced in Metals by Homogeneous Plastic Deformation. Part IX., by B. M. Rovinskiy, 22 pp.

RUSSIAN, per. Zhur Tekh Fiz, Vol XXI, No 11, 1951, 1325 - 1335.

NLL 5838.4/5 CIA/MDD/X-1369

PHYSICS

Scientific -

13,035

573/DEK

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

The Coefficient of Correlation as a Criterion of the Acoustic Quality of a Closed Room, 6 pp.
by S. G. Pershman, UNCLASSIFIED

RUSSIAN, no per, Zhur Tekh Fiz, Vol XXI, No 12, 1951, pp 1492-1496.

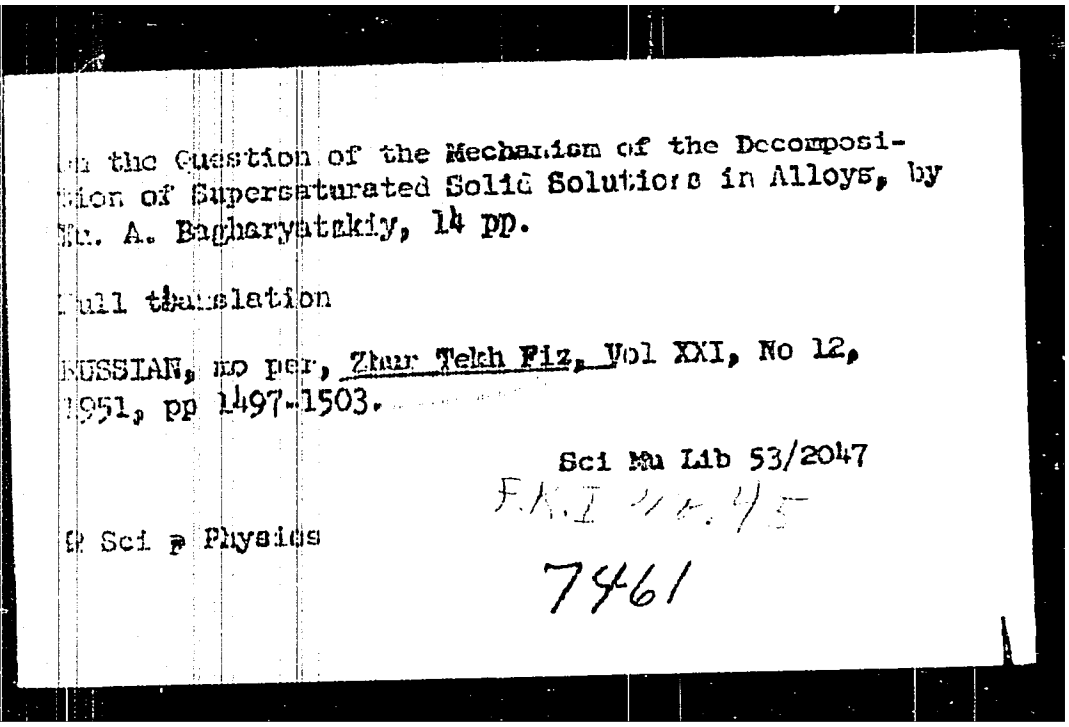
Defence Sci Info Sv; DRB Canada T 37 R

Scientific - Physics, acoustics

Mar 53 CTS

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8



On the Question of the Mechanism of the Decomposition of Supersaturated Solid Solutions in Alloys, by Yu. A. Bagaryatskiy, 14 pp.

Full translation

RUSSIAN, no per, Zhur Tekh Fiz, Vol XXI, No 12, 1951, pp 1497-1503.

Sci Mu Lib 53/2047

F.K.I 44.45

7461

Sci - Physics

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

X-Ray Camera for Low Temperatures, by L. S. Kan, B. G. Lazarev, 4 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol XXI, No 12, 1951, pp 1542-1543.

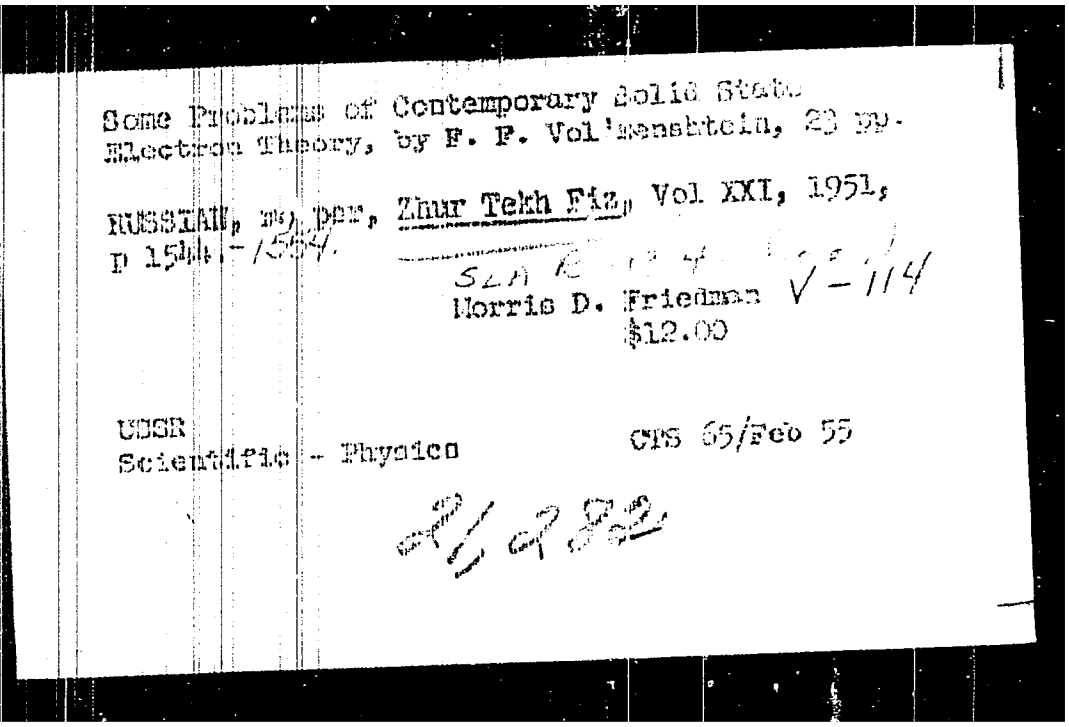
CIA/FDD/X-1353

Physics
Scientific -- Chemistry
CIS/DEX

14,402

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8



Some Problems of Contemporary Solid State Electron Theory, by F. F. Vol'kenshtein, 23 pp.

RUSSIAN, pp. [illegible], Zhur Tekh Fiz, Vol XXI, 1951, p 1561 - 1564.

Morris D. Friedman
$12.00

USSR
Scientific - Physics

CIS 65/Feb 55

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

Contribution to the Theory of the Hardening of
Metals. 2. Electron Density and Chemical Defects
in the Lattice of the Solid Solution of Aluminum
and Copper, by B. M. Rovinskiy, 7 pp.

RUSSIAN,mo per, Zhur Tekh Fiz, Vol XXII, No 1,
1952, pp 63-66.

Sci Museum Lib No 53/2359

9889

USSR
Scientific - Minerals/Metals
Mar 54 CPS

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

Optical Factors and Effective Depth in the Photo-Effect of Cesium Antimony Cathodes, by B. I. Dyatlovskaya

Full translation.

RUSSIAN, per, Zhur Tekh Fiz, Vol XXII, No 1, 1952, pp 84-100.

AEC Tr 1588

Scientific - Physics

Jun 53 CT8/DEX

3157

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

On Deformation of Electromagnetic PulsesPropagated in the Ionosphere, by B. N Gershman, 7 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol XXII, No 1, 1952, pp 101-104.

SLA Tr R-661

Sci - Electricity

50,633

Aug 57

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

On the Thermal Conductivity, Electrical Conductivity and Thermoelectric Force of SbZn Alloys, and Also on the Influence on These of Minute Admixtures of Other Metals, by E. Devyatkova, Yu. Maslakovets, L. Stil'bans, 24 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol XXII, No 1, 1952, pp 129-142.

SLA R-887

Sci - Min/Met

Feb 58

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

The Photoelectric Effect, by K. A. Yumatov.
RUSSIAN, per, Zhur Tekh Fiz, Vol XXII, No 1,
1952, pp 177-178.
ERDL, Ft Belvoir T-1720

(AD - 436421)

Sci - Phys
Oct 64

267,625

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

Processes of Oxidation and Transfer Occurring at the Metal Electrodes of a Direct-Current Arc, by V. V. Dorovkov, P. D. Korzh, 12 pp.

RUSSIAN, pub, Zhur TekhFiz, USSR, Vol XXII, 1952, pp 227-237.

CIA/FDD/Z-117

Scientific - Physics

13,764

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

Spectral Reflexion of Metals in the Spectrum Region 220-250m, by T. Gh. Porokhova, UNCLASSIFIED

RUSSIAN, Zhur Tekh Fiz, 1952, Vol 22, No 2, pp 308-312

MIEH Sci Mus Lib No 52/3112

Scientific - Physics

29 November 1952

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

Energy Spectra of Electrons in Ionic Crystals (Tight-Binding Case), by S. V. Tyablikov, 12 pp.

RUSSIAN, paper, Zhur Tekh Fiz, Vol XXII, 1952, p 325.

Morris D. Friedman
$6.00

USSR
Scientific - Physics CIS 65/T- 55

21,315

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

On The Sensitivity of Radio Pyrometers, by V. S. Trofimov (ATIC - 69906-2) 11 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol XXII, No 3, Mar 1952

ATIC F-TS-7884

Scientific - Electronics

CIA 2001353

7054

CTS/DEX

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

Theory of Solid Rectifiers, by A. I. Gubanov

RUSSIAN, per, Zhur Tekh Fiz, 1952, Vol XXII, No 3, pp 381-393.

D.S.I.R. Tr No CTS 10

Scientific - Electricity

List No 49, Apr 1953

1064

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

Kontorovich, M. I. and Murav'ev, Yu. K.
THE DERIVATION OF THE LAWS OF REFLECTION OF GEOMETRICAL OPTICS ON THE BASIS OF THE ASYMPTOTIC TREATMENT OF DIFFRACTION PROBLEMS. [1961] 21p. (2 figs. omitted) 3 refs. Order from OTS or SLA $2.60 62-10477

Trans. of Zhur[nal] Tekh[nicheskoi] Fiz[iki] (USSR) 1952, v. 22, no. 3, p. 394-407.

DESCRIPTORS: *Diffraction, *Optics, Surfaces, Electromagnetic fields, *Reflection, Theory, Mathematical analysis, Integral equations, Electromagnetic waves reflection.

The derivation of an asymptotic equation for the surface integrals from the oscillating functions (the method of the stationary phase) is considered. By the use of the equation obtained, the relation between the laws of reflection of geometrical optics and the laws
(Physics--Optics, TT, v. 7, no. 10) (over)

62-10477

I. Kontorovich, M. I.
II. Murav'ev, Yu. K.

Office of Technical Services

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

An Investigation Into the Influence of Speed of Circulation on the Values of Critical Heat Flows [illegible] Boiling in Tubes, by [illegible] Ya. Stepanov, 10 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol XXII, No 3, 1952, pp 446-454.

Sci Tech Lib Tr 57/225

Sci - Physics
Mar 58

60-1220

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

On the Theory of a Wave Guide With Coil, Partially Filled With a Dielectric Material. (The Case of Arbitrary Dielectric Permeabilities) by V. P. Shestopalov.

Full translation.

RUSSIAN, no per, Zhur Tekh Fiz, Vol XXII, No 3, USSR, 1952,

AEC Tr 1383

Scientific - Electronics, Wave Guide, Dielectric

Sep 52 CFS/DEK

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

Calculation of the Excitation of Wave Guides, by L. B. Bekenova, 30 pp.

RUSSIAN, ms per, Zhur Tekh Fiz, Vol XXII, 1952, p 595.

Morris D. Friedman
$15.00

UKAN
Scientific - Physics

OK: 6/Feb 53

2 321

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

Some Characteristics of the Flow of a Two Phase Mixture in a Horizontal Pipe, by L. Yu. Kraeyakova, 21 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol XXII, No 4, 1952, pp 654-669.

Sci Mus Lib Tr 57/3671
AERE Lib Tr 695

60,5/4

Sci - Physics
~~MAY~~ 58
Apr

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

Compacting and Sintering of Metal Powders T Studied on the Basis of Their Electrical XX Conductivity, by V. I. Likhtman, L. T. Nazarov,

XX Full translation.

RUSSIAN, per, Zhur Tekh Fiz, Vol XXII, No 4, 1952, pp 696-702.

Brutcher Tr No 3065

Jul 53 CTS/DEX

Scientific - Minerals/Metals Price $6.40 3508

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

Theory of the Contact Phenomena in Semiconductors, by A. I. Gubanov

RUSSIAN, per, Zhur Tekh Fiz, 1952, Vol XXII, No 5, pp 729-735.

D.S.I.R. Tr No CTS 9

Scientific - Electricity

List No 49, Apr 1953

1071

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

Model of the Movement of Charged Particles in a 2-Dimensional Electric Field, With Consideration of the Space Charge, by B. V. Bobykin,

RUSSIAN, per, Zhur Tekh Fiz, Vol XXII, No 5, 1952, pp 736-743.

UKSM GB 43

Sci - Electricity 537.351

Sep 57

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

Temperature Relation of the Spectral Sensitivity of Caesium-Antimony Photocells, by V. S. Khazanov, S. G. Yurov.

Full translation.

RUSSIAN, mo per, Zhur Tekh Fiz, Vol XXII, USSR, 1952, pp 744-746.

AEC Tr 1500

Scientific - Physics, spectral, caesium-antimony photocells

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

Influence of Tensile Stressing in the Dielectric Losses and the Polarization EX of Crystalline Polymers, by G. P. Mikhailov, B. M. Fainshtein

RUSSIAN, Zhur Tekh Fiz, 1952, Vol XXII, No 5, pp 759-EX 764.

D.S.I.R. Tr No CTS 7

Scientific - Physics

List No 49, Apr 1953

1069

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

Reactivity of Diffusion of Carbon Into Tungsten,
by G. S. Kreimer, L. D. Efros, 24 pp.
RUSSIAN, per, Zhur Tekh Fiz, Vol XXII, 1952,
pp 858-883. 9226314
AEC-Tr-6510

Sci-Phys
Feb 65

274,251

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

The Use of "БФ-2" and "БК-2" Glues in Experiments at Low Temperatures, by B. N Samoilov, 2 pp. UNCLASSIFIED

RUSSIAN, per, Zhur Tekh Fiz SSSR, Vol XXII, No 5, 1952, pp 888-889.

Navy Tr 787/NRL 438

USSR

Scientific - Physics

Jul 53 CTS

3851

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

Vacuum Metallography, Its Present State and Future Trends of Development, by N. T. Gudtsov, and M. Gh. Lozinskii, 23 pp.

Fully translation.

RUSSIAN, Zhur Tekh Fiz, 1952, Vol XXII, No 6, pp 905-921.

See CIA/FDD/Z-66
Sci Mus Lib No 52/3251

Scientific - Microscopy

27 December 1952

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

Forced Vibrations of Systems Striking a Stop, by P. S. Livshits,

RUSSIAN, per, Zhur Tekh Fiz, Vol XXII, No 6, 1952, pp 921-931.

ATS RJ-1303

Sci - Phys
Jul 59

92, 218

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

Investigations of the Influence of Atomic Admixtures on the Thermal Conductivity in a Crystalline Lattice, by E. D. Devyatkova, L. S. Stil'bans, 6 pp.

RUSSIAN, pam, Zhur Tekh Fiz, Vol XXII, 1952, pp 968-972, 9207653.

AEC-SCL-Tr-468

Sci - Phys

Jun 63

OTS 63-16410
(63-15492)
231,765

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

Concerning the Work Functions of Separate Faces of Monocrystalline Tungsten, by B. G. Smernov, G. N. Shuppe, (AF 499340)

RUSSIAN, per, Zhur Tekh Fiz, Vol XXII, No 6, 1952, pp 973-980.

ATIC F-TS-8125

Scientific - Physics OTS 61-19811

Aug 53 CTS/DEX

4180

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

Rapid Method of Determining the Thermal Characteristics of Poor Heat Conductors, by V. S. Vol'kenshtein, 23 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol XXII, No 6, 1952, pp 1043-1049.

SLA Tr R-998

Sci - Engineering
Feb 58

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

Criticism, Partial Foundation and Limits of Applicability of the Band Theory of Electrons in Crystals, by S. I. Pekar, 27 pp.

RUSSIAN, [illegible] Zhur Tekh Fiz, Vol XXII, No 6, 1952, pp 1062-1075. CIA D 193578

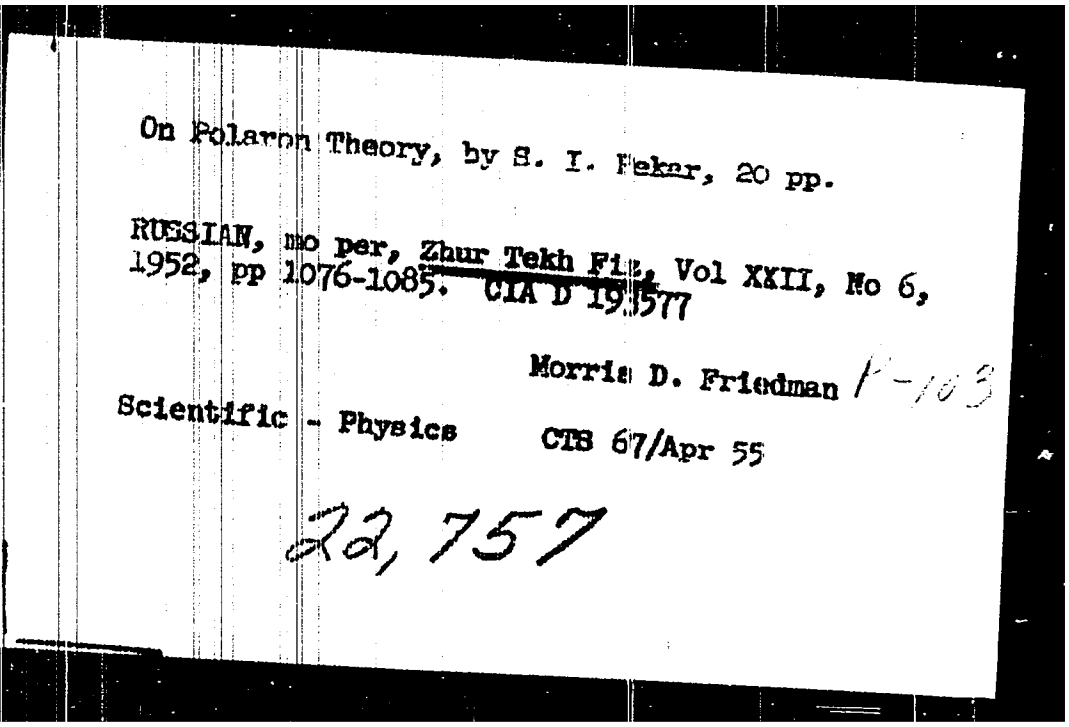
Morris D. Friedman P-101

Scientific - Physics CTS 67/Apr 55

22, 7.56

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8



On Polaron Theory, by S. I. Pekar, 20 pp.

RUSSIAN, mo per, Zhur Tekh Fiz, Vol XXII, No 6, 1952, pp 1076-1085. CIA D 19,577

Morris D. Friedman P-103

Scientific - Physics CTS 67/Apr 55

22,757

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

Investigation Of the Sintering Of Electrolytic Copper by R.I. Garber and S.S. D'Yachenko.

RUSSIAN, per, Zhurnal Tekhnicheskoi Fiziki, Vol XXII, No 7, 1952, pp 1097-1108.

CSIRO

Oct. 62

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

Distribution of Concentration of Current Carriers in Semiconductor Specimen with the Hall Effect, by A. I. Ansel'm. 11 pp.
RUSSIAN, per, Zhurnal Tekhni. Fiz., Vol 22, No 7, 1952, pp 1146-1153.
NASA TT F-12,698

sci/physics
27 apr 70

404,508

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

On Excursions After a Quadratic Detector, by V. M. Rozov, 6 pp.

RUSSIAN, mp per, Zhur Tekh Fiz, Vol XXII, No 7, 1952, pp 1195-1200.

Morris D. Friedman
$3.00 35, 20 ~

Scientific - Physics

Jun 56 CTS/dex

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

The thermal Conductivity of Aluminum Oxide at High Temperatures, by A. R. Shul'man, et al.

RUSSIAN, per, Zhur Tekh Fiz, Vol XXII, No 8. 1952, pp 1271-1280.

NLL. M.4538

Sci - Phys

Apr 62 193,896

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

The Grinding Together of Brittle Solids, by V. D. Kuznetsov, 46 pp.

RUSSIAN, per, Zhur Tekh Fiz, XXXX Vol XXII, No 9, 1952, pp 1409-1427.

24,783 Sci Trans Center RT-2416

Scientific - Physics Aug 59 CTS/DEX

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

Boiling Under Tangible Conditions, by Ye. I. Nadle,
14 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol XX, No 9, 1952,
pp 1506-1512.

ATIC F-TS-9356/V

Bc1 - Phys

Jan 58

57 863

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

Factors Affecting the Strength of Glass Fibers, by A. F. Zak, 9 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol XXII, No 10, 1952, pp 1543-1551.

28,424 Sci Mu Lib Tr 55/1487

Scientific - Physics Nov 55 CTS

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

Cathode Sputtering and Electron Emission of Iron and Graphite, by M. A. Yermaev, Ya. K. Matrinov.
RUSSIAN, per, Zhur Tekh Fiz, Vol 22, No 10, 1952, pp 1552-1555.
(TAS 1928)
CRGR 4205

314,403

Sci - Mechanical, Industrial, Civil, and Marine Engineering
Nov 66

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

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61-10856

Kalinin, V. I. and Rasanova, T. P.
ON THE THEORY OF A MULTI-SEGMENT MAGNETRON. [1961] 10p. 3 refs.
Order from LC or SLA mi$1.80, ph$1.80 61-10856

Trans. of Zhurnal Tekhnicheskoy Fiziki (USSR) 1952, v. 22, no. 10, p. 1592-1598.

The energy relationships in a multi-segment magnetron were investigated. The multi-segment magnetron was represented by a closed sequence of intervals having alternating fields (slots) and drift spaces. Fundamental kinematic relationships were derived, which are the starting point for the calculation of the energy balance in an electron stream. The electron stream itself is included in such a system of n-slots. As a result of this calculation general formulas were found and applied to the specific cases of two, three, and four slots. Comparison of the calculated values with those obtained by experiment disclosed a satisfactory agreement between the observed and calculated excitation (Electronic Electronics, TT, v. 5, no. 10) (over)

61-10856

1. Magnetrons--Theory
I. Kalinin, V. I.
II. Rasanova, T. P.

Office of Technical Services

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

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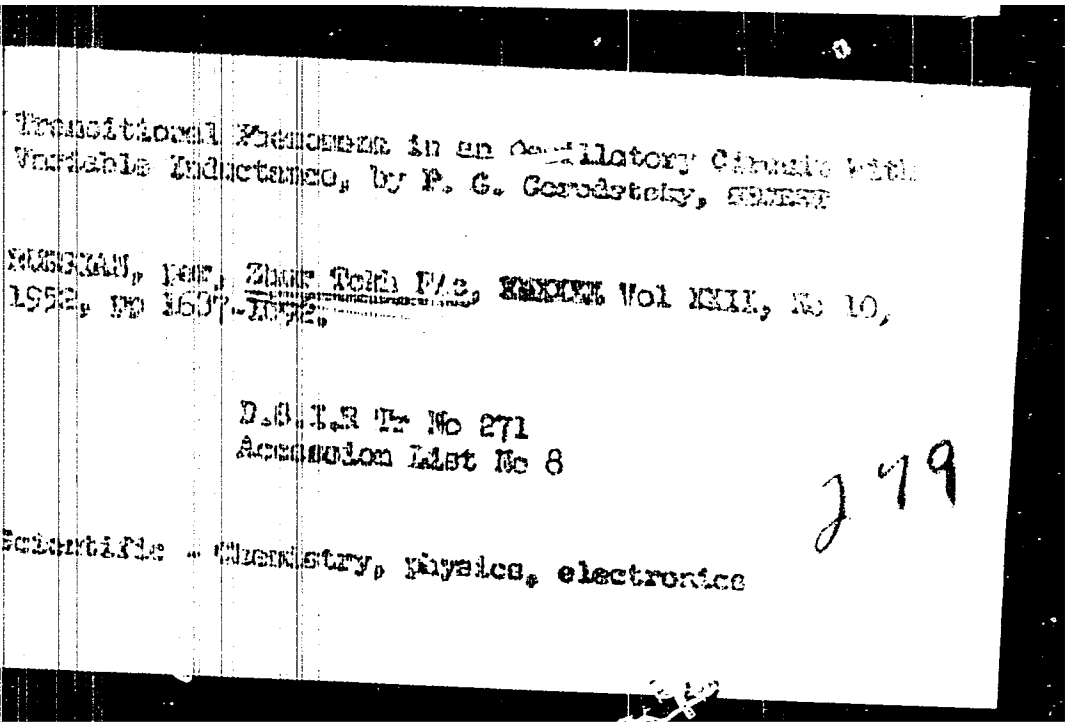


Transitional Phenomena in an Oscillatory Circuit with Variable Inductance, by P. G. Gorodetsky, engineer

RUSSIAN, Zhur Tekh Fiz, Vol XXII, No 10, 1952, pp 1697-1702.

D.B.I.S. Tr No 271
Accession List No 8

J 79

Scientific - Chemistry, physics, electronics

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

Diffusion of Niobium Into Steel From the Gas Phase, by Dubinin. UNCLASSIFIED

RUSSIAN, per, Zhur Tekh Fiz, No 11., 1952, pp 1730-1740.

~~Co-op Tr Scheme~~
Tr 602
(L3.10.0)

Sci - Phys
Apr 58

62,665

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

The Turbulent Boundary Layer in the Presence of a Longitudinal Pressure Drop, by L. M. Zysina-Molozhan, 15 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol XXII, No 11, 1952, pp 1756-1772.

CIA/FDD/Z-96

Scientific - Physics
Apr 54 CTS/DEX

12,396

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

Thermodynamic Analysis of Irreversible Low-Temperature Processes. I. Theory and Fundamentals of a Generalized Method of Analysis, by I. P. Ishkin, V. M. Brodianskiy.

RUSSIAN, per, Zhur Tekh Fiz, Vol XXII, No 11, 1952, pp 1773-1782.

Nat Res Lib
TT.475

20,991

Scientific - Physics

Jan 55 CTS/DMK

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

(FDD 19313)

Oscillations of Plasma in Crossed Electrical and Magnetic Fields, by A. I. Akhiyezer, R. V.Polovin, 18 pp

Full translation.

RUSSIAN, mp per, Zhur Tekh Fiz, Vol XXII, No 11, Moscow/Leningrad, Nov 1952, pp 1794-1802.

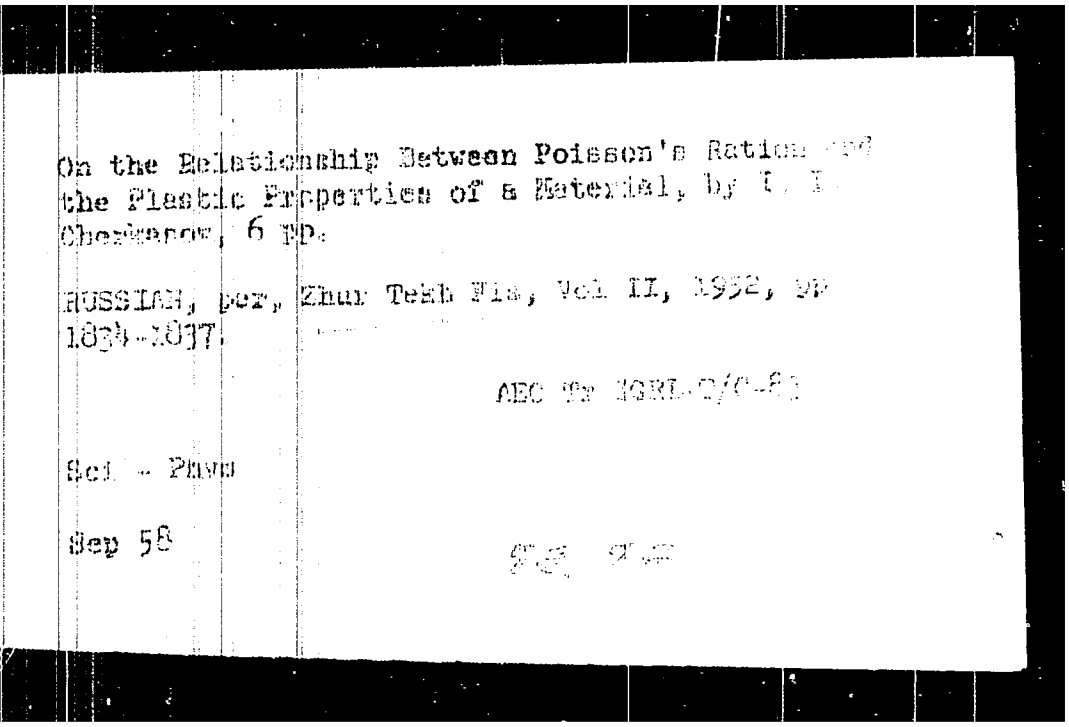
CIA/FDD/U-5485 9447

USSR
Scientific - Physics, plasma oscillations

Jan 54

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8



On the Relationship Between Poisson's Ratio and the Plastic Properties of a Material, by I. I. Cherepanov, 6 pp.

RUSSIAN, per. Zhur Tekh Fiz, Vol II, 1952, pp 1834-1837.

AEC Tr NSRL-2/C-83

Sci - Phys

Sep 58

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

Working Conditions of an Absolute Mercury Manometer, by V. T. Slavyanskiy.

RUSSIAN, per, Zhur Tekh Fiz, Vol XXII, No 11, 1952, pp 1881-1884.

UKSM No 3130

Sci - Physics

52,334

Sep 57

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

Impeded Discharge in a Magnetic Field for a Special Configuration of the Discharge Gap, by Z. M. Reikhrudel, I. V. Vasil'eva, A. V. Chernetskii, Z. M. Mikhnevich.

RUSSIAN, per, Zh Tekh Fiz, Vol XXII, No 12, 1952, pp 1954-1966.

R.A.E. 490

30,867

Sci Physics

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

Superposition of Gratings, by A. V. Shubnikov.
RUSSIAN, per, Zhurnal Tekhnicheskoi Fiziki, Vol 22, 1952, pp 2038-66.
SLA TT-66-11026

331, 654

Sci
Jul 67

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

Measurement of the Velocity of Propagation of Ultrasonic Waves in Rubber, by N. F. Otpushchennikov, L. A. Shinyanskiy,

RUSSIAN, per, Zhur Tekh Fiz, Vol XXIII, 1953, pp 32-34.

UKSM GB 57/460

Sci - Physics

Oct 57

54,603

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

"The Problem of the Influence of the Turbulence of a Liquid Jet on Its Atomization, by A. I. Borisenko, 2 pp.

RUSSIAN, mp per, Zhur Tekh Fiz, Vol XXIII, No 1, 1953, pp 195-196.

Sci Museum Lib Tr
No 53/2274

USSR
Scientific Physics

Feb 64 CTS

9613

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

On the Theory of the Heat Transfer From a Boiling Fluid, by L. S. Sterman.

RUSSIAN, no per, Zhur Tekh Fiz, Vol XXIII, No 2, 1953, pp 341-351.

Co-op Tr Sc 62

11, 819

Scientific - Physics

£3.6s.(11s.0d.)

Apr 54 CIS'

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

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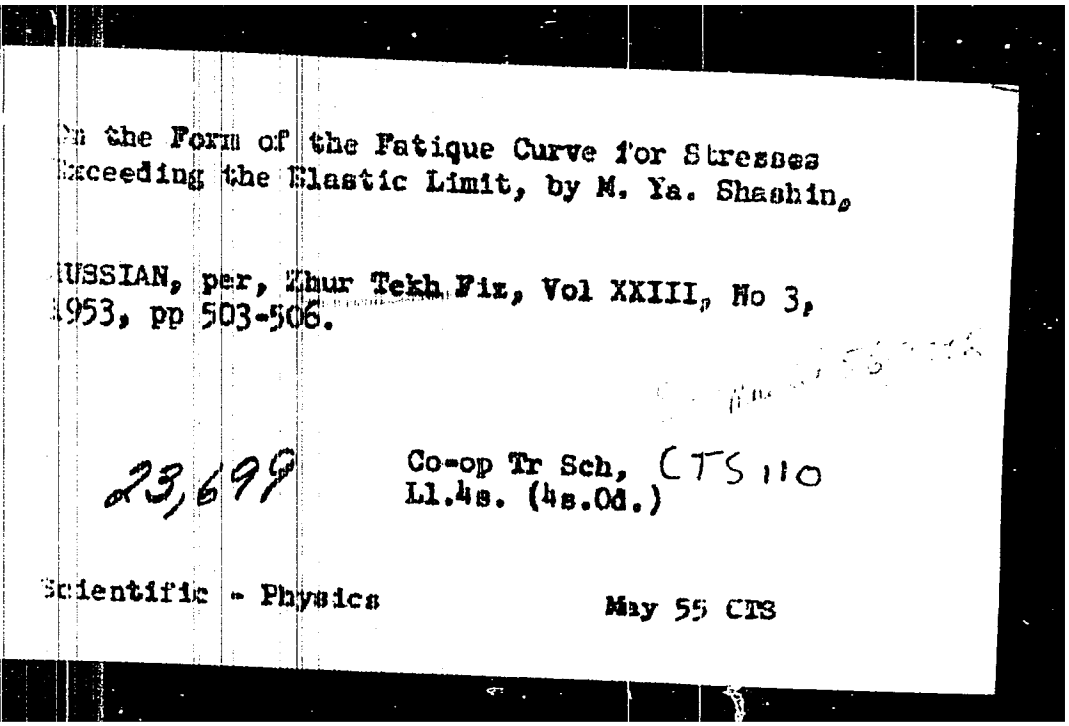


n the Form of the Fatique Curve for Stresses
xceeding the Elastic Limit, by M. Ya. Shashin,

USSIAN, per, Zhur Tekh Fiz, Vol XXIII, No 3,
953, pp 503-506.

23,699 Co-op Tr Sch, CTS 110
Ll.4s. (4s.0d.)

Scientific - Physics May 55 CTS

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

A Contribution to the Theory of Tracking Filters, by A. S. Viniteki
RUSSIAN, per, Zh. Tekh. Fiz., Vol 23, No 4, 1953, pp 619-645.
NLL Ref: 9022.31 (2373)

Sci-Electrical Engr.
Aug 68

362,168

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

10 845 GE-1

A. I. BLUM, A. R. REGEL'

Study on the thermoelectric force of tellurium and selenium alloys in the solid and liquid states

Untersuchung der Thermokraft von Tellur- und Selenlegierung im festen und flüssigen Zustand

Zhur. Tekh. Fiz., 23, No. 5, 783-787 (1953)

- German

Euratom

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

On Methods of Investigating the Velocity Distribution of Electrons in Plasma, by Iu. M. Kagan, G. M. Malyshev, V. L. Fedorov, 19 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol XXIII, 1953, pp 894-903.

28,706

AEC Tr 2284

Columbia Tech Tr

Scientific - Physics Nov 55 CTS/DEX

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

A Study of the Temperature Field in Moist Materials During Drying (Constant Rate Period), by F. M. Polomoshnyy.

RUSSIAN, Zhur Tekh Fiz, Vol XXIX, No 5, 1953, pp 796-801.

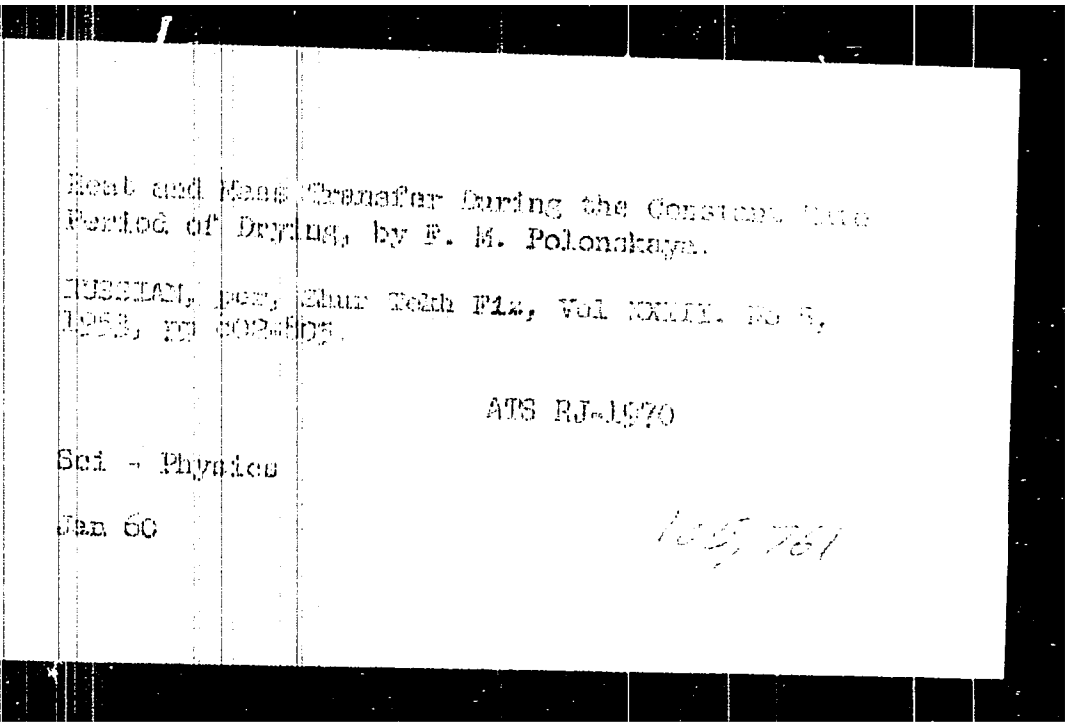
ATD RT-1969

Sci - Physics

Jan 60

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8



Heat and Mass Transfer during the Constant Rate Period of Drying, by F. M. Polonskaya.

RUSSIAN, Zhur Tekh Fiz, Vol XXIII, No 5, 1953, pp 802-805.

ATS RJ-1970

Sci - Physics

Jan 60

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

15 228 US-14

KAGAN Yu. M., et al.

Methods of investigating electron distribution in plasma according to velocities

Zhur. Tekhn. Fiz., 23, No. 5, 894-903 (1953)

RJ 910. $ 13.90 - English

Euratom

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

Pulse Method of Investigating the Basic Characteristics of Gas Discharge, by B. A. Mamyrin, 16 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol XXIII, 1953, pp 904-912.

28705

AEC Tr 2283

Columbia Tech Tr

Scientific - Physics

Nov 55 CTS/DEX

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

Some Questions on the Theory of Processes of Convective, High-Intensity Heat Exchange, by A. A. Gukhman, 88 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol XXIII, No 6, 1953, pp 1064-1114.

ATIC F-TS-9340/V

Sci - Phys
Feb 59

81,033

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

Kinetics of Crystal Growth in the Range Limited by the Rate of Molecular Diffusion, by N. I. Litmovskiy, O. M. Todes.

RUSSIAN, per, Zhur Tekh Fiz, Vol XXIII, No 7, 1953, pp 1125-1134.

DSIR LLU RTS 1598

Sci - Chem

Oct 60

130,710

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8

The Surface Tension of the Binary Metal Alloys Po-Sn, Bi-Pb, Bi-Sn and Bi-Cd, by R. V. Bakradze, G. Ya. Pines. UNCLASSIFIED

RUSSIAN, per, Zhur Tekh Fiz, Vol XXVII, No 9, 1953, pp 1948-1953.

Sci Mus Lib 58/0320

Sci - Min/Met; Phys
Sep 58

73,408

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470008-8